

Model: UT-792

(Product Name: PCI-E to 2 Ports RS-485/422 High Speed Serial Adapter)

Datasheet

1. Overview

UT-792 industrial PCI-E multiport serial adapter is compatible with RS-422/485 standard, it converts PCI-E signal to balance different RS-422/485 signal. With built-in optoelectronic isolator and instant voltage control protector, it is designed to protect RS-422/485 ports; it adopts advanced TVS (TRANSIENT VOLTAGE SUPPRESSOR) instant voltage control. In normal situation, TVS tube is in high impedance state; when both ends of TVS tube are impacted by high power instantly, it lowers the impedance with super high speed, and absorbs high current, so as to limit the voltage from both ends in a pre-value, and protect the circuit components from damage by high voltage impact. This protector is with lightning and ESD protection, provides 2,000V each wire with lightning surge protection, and surge voltage and instant overvoltage protection on circuit which causing by all reasons; the tiny interelectrode capacitance ensures high speed transmission for RS-422/485 ports.

2. Major Functions & Features

- Supports PCI-E to 2 Ports RS-485/422 high speed serial adapter

3. Technical Parameters

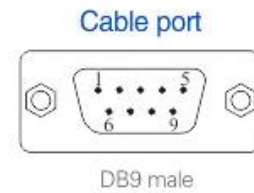
- Connector: 2* DB9
- BUS: X1 2.5Gbps PCI Express
- Signal
 - RS-422: T/R+, T/R-, RXD+, RXD-, GND
 - RS-485: Data+(A) Data-(B) GND
- Baud rate: 300bps-921.6Kbps
- Digit bit: 5, 6, 7, 8
- Stop bit: 1, 1.5, 2
- Parity bit: None, Even, odd, Space, Mark
- Flow control: RTS/CTS XON/XOFF
- Operating temperature: -40 ~ 85°C
- Port protection: RS 422, RS 485 interface 600W per line lightning surge protection, ± 15KV electrostatic protection
- Transmission distance: RS-485/422 1.2Km
- Win2000/XP/Vista/Win7/NT4.0/CE 4.2/5.0/6.0/Vxworks/ Linux 2.4.x/2.6.x
- RS-422/485 interface up to 921.6Kbps, 256byte FIFO driver and built-in hardware and software flow control. Universal PCI E interface.

4. Connector and Signal

Connector & signal

DB9 male: RS-485/RS-422 signal pin assignment (Port1-Port2)

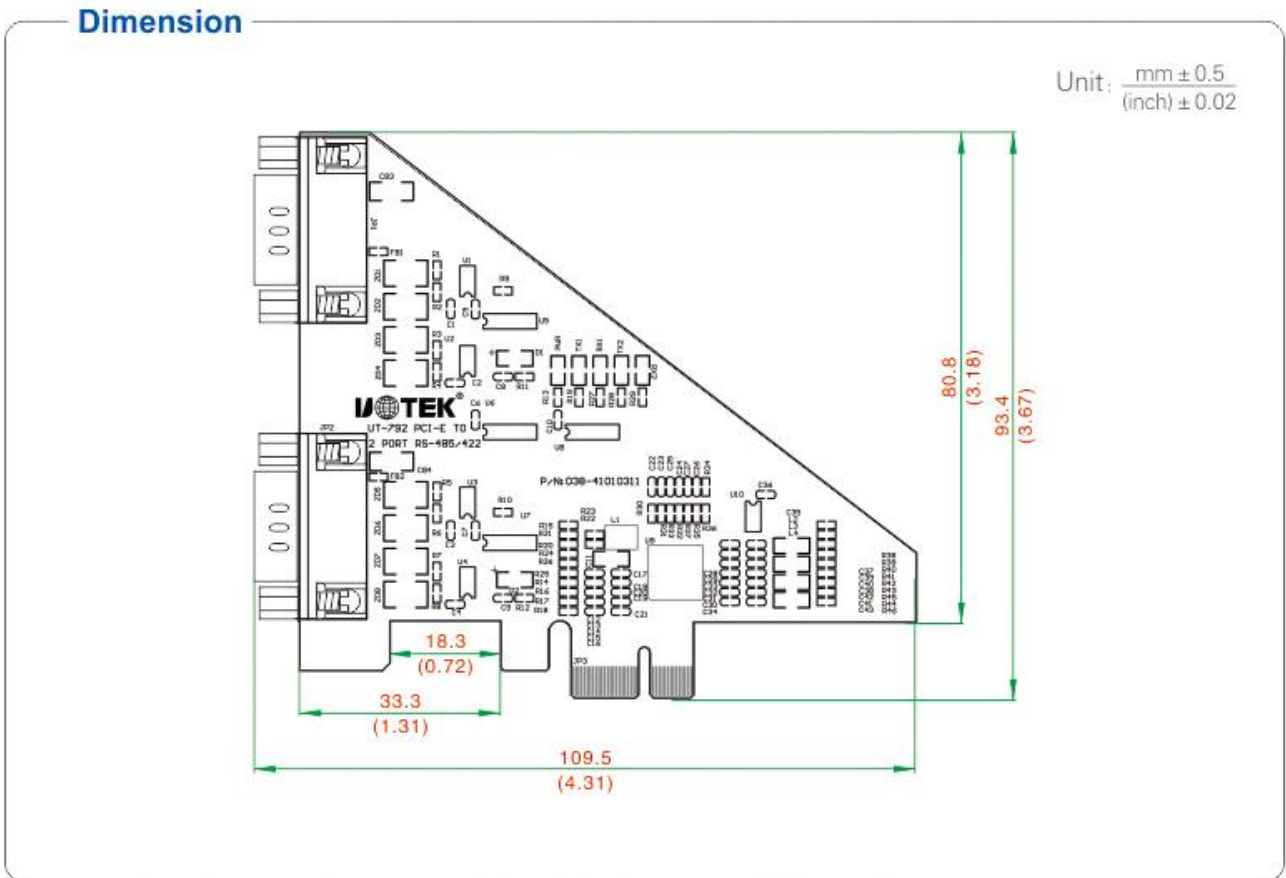
DB9 male	Output signal	RS-422 full-duplex connectoin	RS-485 half-duplex connection
1	T/R+	T/R+	RS-485 (B-)
2	T/R-	T/R-	RS-485 (A+)
3	RXD+	RXD+	-
4	RXD-	RXD-	-
5	GND	GND	GND
6	N/C		
7	N/C		
8	N/C		
9	N/C		



5. Product View (Appearance)



6. Structure dimensions



7. Ordering

Ordering										
Model	Signal/Port		Port qty		Protection	Baudrate	Environment		Power	
	PCI-E	RS-485/422	PCI-E	RS-485/422	RS-485/422		Temperature	Humidity	Port-Powered	External Power
							-25/70°C	-40/85°C		
UT-792	Universal	✓	1	2	± 15KV ESD	300bps-921.6kbps		✓	✓	✓

Accessories: Cable/terminal block